

Iowa Influenza Surveillance Network (IISN)

Influenza-like Illness (ILI) and Other Respiratory Viruses

Monthly Activity Report

July 2015

All data presented in this report are provisional and may change as additional reports are received



lowa statewide activity summary:

Influenza activity in Iowa is very Iow. There was one laboratory confirmed case of influenza A (H3) reported in July. Other respiratory viruses reported in this period include: 79 cases of rhinovirus/enterovirus, 14 adenovirus, 24 para influenza 3, one RSV, and four hMPV. During the 2014-2015 influenza season, 62 influenza outbreaks were reported in Iowa long-term care facilities and three confirmed influenza-related deaths in children (age 0-17).

National activity summary - (CDC):

Condensed reports over the summer months are available at http://www.cdc.gov/flu/weekly/

International activity summary - (WHO):

Globally, the Southern hemisphere had increased influenza activity whereas influenza activity was at low levels in the Northern hemisphere. Detailed information can be found online at

www.who.int/influenza/surveillance monitoring/updates/latest update GIP surveillance/en/. It was last updated 7/27/2015.

Laboratory surveillance program:

Only cases of Iowa residents are included

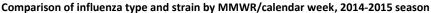
The State Hygienic Laboratory (SHL) is the primary lab for influenza testing and reporting in Iowa. SHL reports the number of tests performed and the type and strain of positive tests to the influenza surveillance network several times every week. In addition, SHL surveys clinical and reference labs for the number of rapid-antigen tests performed and number positive weekly. This report also includes the positive non-influenza virus tests reported from SHL, the Dunes Medical Laboratories at Mercy Medical Center in Sioux City, and Iowa Methodist Medical Center in Des Moines.

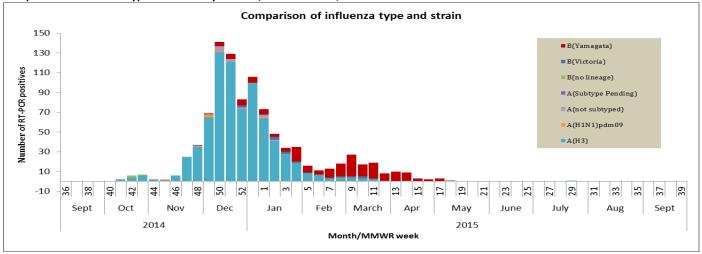
Table 1: Influenza A viruses detected by SHL by age group								
	JULY 2015				YEAR TO DATE (9/1/14 – PRESENT WEEK)			
	Flu A				Flu A			
Age Group	A(H1N1)pdm09	A(H3)	Subtype Pending	Not subtyped	A(H1N1)pdm09	A(H3)	Subtype Pending	Not subtyped
0-4	0(0%)	0(0%)	0(0%)	0(0%)	3(38%)	64(9%)	0(0%)	1(9%)
5-17	0(0%)	0(0%)	0(0%)	0(0%)	1(13%)	122(17%)	0(0%)	2(18%)
18-24	0(0%)	0(0%)	0(0%)	0(0%)	0(0%)	62(8%)	0(0%)	1(9%)
25-49	0(0%)	0(0%)	0(0%)	0(0%)	2(25%)	83(12%)	0(0%)	1(9%)
50-64	0(0%)	0(0%)	0(0%)	0(0%)	1(12%)	63(9%)	0(0%)	3(27%)
>64	0(0%)	1(100%)	0(0%)	0(0%)	1(12%)	328(45%)	0(0%)	3(27%)
Total	0	1	0	0	8	722	0	11

^{*}Counts of three or less are sometimes suppressed to protect confidentiality. Note that counts may not add up to the total due to missing age information

[&]quot;Not subtyped" column is due to weak detections. This can be due to poor collection, timing of collection or stage of infection

		JULY 2015		YEAR TO DATE (9/1/14 – PRESENT WEEK)			
Age		Flu B		Flu B			
Group	Victoria Lineage	Yamagata Lineage	Lineage Pending	Victoria Lineage	Yamagata Lineage	Lineage Pending	
0-4	0(0%)	0(0%)	0(0%)	4(23%)	15(9%)	0(0%)	
5-17	0(0%)	0(0%)	0(0%)	4(23%)	45(27%)	0(0%)	
18-24	0(0%)	0(0%)	0(0%)	3(12%)	6(4%)	0(0%)	
25-49	0(0%)	0(0%)	0(0%)	2(12%)	33(19%)	0(0%)	
50-64	0(0%)	0(0%)	0(0%)	2(12%)	26(16%)	0(0%)	
>64	0(0%)	0(0%)	0(0%)	3(18%)	42(25%)	0(0%)	
Total	0	0	0	18	167	0	



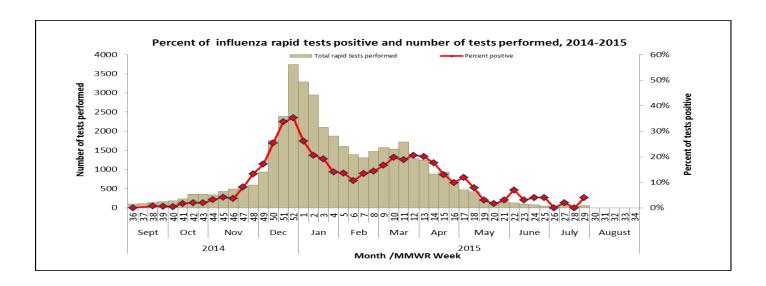


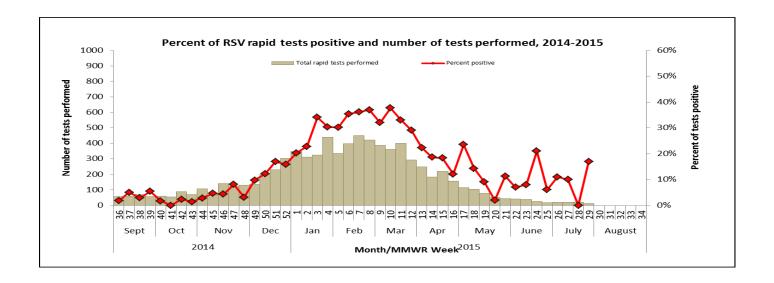
Rapid influenza and RSV test surveillance: July 2015

The State Hygienic Laboratory (SHL) runs a weekly web-based survey program where laboratorians report the number of influenza and respiratory syncytial virus (RSV) rapid tests performed and the number of tests positive. This table includes only the number of patients tested for influenza or RSV at laboratory surveillance sites throughout the state. This table does not provide case counts.

REGION*		RAPID	ANTIGEN INFLUEN	RAPID ANTIGEN RSV TESTS				
KEGION*	Tested	Flu A	Flu B	Undefined	% Positive	Tested	Positive	% Positive
Region 1	15	0	0	0	0.0	10	2	20.0
Region 2	3	1	0	0	33.3	4	0	0.0
Region 3	21	0	0	0	0.0	22	3	13.6
Region 4	6	0	0	0	0.0	1	0	0.0
Region 5	49	1	1	0	4.1	15	0	0.0
Region 6	119	0	0	0	0.0	19	0	0.0
Total	213	2	1	0	1.4	71	5	7.0

*Region 1- Boone, Calhoun, Carroll, Dallas, Greene, Grundy, Hamilton, Hardin, Jasper, Marshall, Polk, Poweshiek, Story, Tama, Warren, Webster; Region 2- Allamakee, Bremer, Butler, Cerro Gordo, Chickasaw, Emmet, Fayette, Floyd, Franklin, Hancock, Howard, Humboldt, Kossuth, Mitchell, Winnebago, Winneshiek, Worth, Wright, Region 3- Buena Vista, Cherokee, Clay, Crawford, Dickinson, Ida, Lyon, Monona, O'Brien, Osceola, Palo Alto, Plymouth, Pocahontas, Sac, Sioux, Woodbury; Region 4- Adairs, Audubon, Cass, Clarke, Decatur, Fremont, Guthrie, Harrison, Madison, Mills, Montgomery, Page, Pottawattamie, Ringgold, Shelby, Taylor, Union; Region 5- Appanoose, Davis, Des Moines, Henry, Jefferson, Keokuk, Lee, Louisa, Lucas, Mahaska, Marion, Monroe, Muscatine, Van Buren, Wapello, Washington, Wayne; Region 6- Benton, Black Hawk, Buchanan, Cedar, Clayton, Clinton, Delaware, Dubuque, Iowa, Jackson, Johnson, Jones, Linn, Scott.



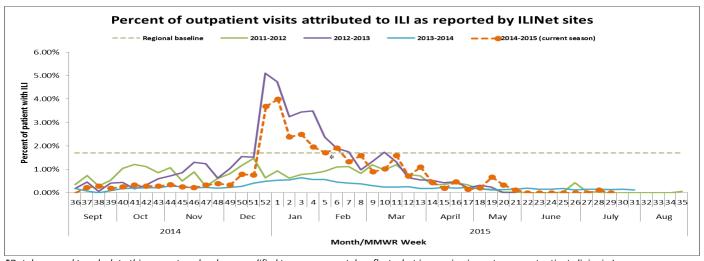


Non-influenza respiratory virus:

-	luenza respiratory virus isolated by SHL, Mercy Dunes in			
Viruses	JULY	CUMULATIVE (9/1/14 – PRESENT WEEK)		
Adenovirus	14	316		
Parainfluenza Virus Type 1	0	3		
Parainfluenza Virus Type 2	0	101		
Parainfluenza Virus Type 3	24	233		
Parainfluenza Virus Type 4	2	25		
Rhinovirus/Enterovirus	79	1242		
Respiratory syncytial virus (RSV)	1	473		
Human metapneumovirus (hMPV)	4	216		
Total	124	2609		

Outpatient health care provider surveillance program (ILINet):

Outpatient health care providers who participate in the ILINet (a national influenza surveillance program) report the number of patients seen with influenza-like illness and the total number of patient visits each week. This system is a key part of lowa's influenza surveillance. Iowa health care providers interested in joining this surveillance program should contact Kemi Oni at 515-725-2136 or oluwakemi.oni@idph.iowa.gov for more information.



^{*}Database used to calculate this percentage has been modified to more accurately reflect what is occuring in acute care outpatient clinics in lowa.

Other resources:

Vaccine:

Influenza vaccine recommendation: http://www.idph.state.ia.us/ImmTB/Immunization.aspx?prog=Imm&pg=Flu

CDC vaccine information: http://www.cdc.gov/flu/faq/flu-vaccine-types.htm

Vaccine finder: http://vaccinefinder.org/

Neighboring states' influenza information:

Illinois: http://www.idph.state.il.us/flu/surveillance.htm

Minnesota: http://www.health.state.mn.us/divs/idepc/diseases/flu/stats/index.html

Missouri: http://health.mo.gov/living/healthcondiseases/communicable/influenza/reports.php

South Dakota: http://doh.sd.gov/diseases/infectious/flu/

Google Flu Trends: http://www.google.org/flutrends/us/#US-IA